

IN THE CLAIMS

Claims 1-21 (Canceled).

22. (Currently amended) A system for processing voice for communication over a network comprising:

a processing circuit for managing the packetization of digital voice data representative of analog voice signals to provide digital voice data packets and for managing the depacketization of digital voice data, the processing circuit packetizing the digital voice data according to a packet protocol; and

a transceiver circuit for wireless transmission and wireless reception according to a wireless communication protocol of the digital voice data packets, wherein the digital voice data packets comprise destination information used for routing the digital voice data packets.

23. (Previously presented) A system as recited in claim 22 wherein the packet protocol comprises an internet protocol.

24. (Previously presented) A system as recited in claim 23 wherein the internet protocol is TCP/IP.

25. (Previously presented) A system as recited in claim 22 wherein the wireless transmission and reception of digital voice data packets is in accordance with a spread spectrum frequency hopping communication protocol.

26. (Previously presented) A system as recited in claim 22 wherein the wireless transmission and reception of digital voice data packets is in accordance with a direct sequence spread spectrum communication protocol.

27. (Previously presented) A system as recited in claim 22 wherein the wireless transmission and reception of digital voice data packets utilizes a communication protocol with a plurality of data rates including at least a standard data rate and a higher data rate.

28. (Currently amended) A system for processing voice for communication over a network comprising:

conversion circuitry for converting analog voice signals to digital voice data and for converting digital voice data to analog voice signals for the reproduction of voice;

a processing circuit for managing the packetization of digital voice data to provide digital voice data packets and for managing the depacketization of digital voice data, the processing circuit packetizing the digital voice data according to a packet protocol; and

a transceiver circuit for wireless transmission and wireless reception according to a wireless communication protocol of the digital voice data packets, wherein the digital voice data packets comprise destination information used for routing the digital voice data packets.

29. (Currently amended) A method for processing voice for a communication network comprising:

packetizing digital voice data representing analog voice signals according to a packet protocol, wherein the digital voice data packets comprise destination information used for routing the digital voice data packets through the communication network; and

wirelessly transmitting, in accordance with a wireless communication protocol, the digital voice data packetized according to a packet protocol.

30. (Previously presented) A method as recited in claim 29 wherein the packet protocol comprises an internet protocol.

31. (Previously presented) A method as recited in claim 30 wherein the internet protocol is TCP/IP.

32. (Previously presented) A method as recited in claim 29 further comprising converting analog voice signals to digital voice data.

33. (Previously presented) A method as recited in claim 29 wherein the wireless communication protocol is a spread spectrum frequency hopping communication protocol.

34. (Previously presented) A method as recited in claim 29 wherein the wireless communication protocol is a direct sequence spread spectrum communication protocol.

35. (Previously presented) A method as recited in claim 29 wherein the wireless communication protocol accommodates a plurality of data rates.

36. (Currently amended) A method for processing voice for a communication network comprising:

packetizing digital voice data according to a packet protocol, wherein the digital voice data is packetized according to a packet protocol comprising destination information used for routing the digital voice data packetized according to the packet protocol through the communication network;

wirelessly transmitting, in accordance with a wireless communication protocol, the digital voice data packetized according to a packet protocol;

wirelessly receiving, in accordance with the wireless communication protocol, digital voice data packetized according to a packet protocol;

depacketizing the digital voice data; and

converting the digital voice data to analog voice signals.

37. (Previously presented) A method as recited in claim 36 wherein the packet protocol comprises an internet protocol.

38. (Previously presented) A method as recited in claim 37 wherein the internet protocol is TCP/IP.

39. (Previously presented) A method as recited in claim 36 further comprising converting analog voice signals to digital voice data.

40. (Previously presented) A method as recited in claim 36 wherein the wireless communication protocol is a spread spectrum frequency hopping communication protocol.

41. (Previously presented) A method as recited in claim 36 wherein the wireless communication protocol is a direct sequence spread spectrum.

42. (Previously presented) A method as recited in claim 36 wherein the wireless communication protocol accommodates a plurality of data rates.

43. (Currently amended) A system for processing voice for communication over a network comprising:

a processing circuit for managing the packetization of digital voice data to provide digital voice data packets and for managing the depacketization of digital voice data, the processing circuit packetizing the digital voice data according to a packet protocol, wherein the digital voice packets comprise destination information used for routing the digital voice packets through the network;

a transceiver for wireless transmission and wireless reception of the digital voice data packets; and

a media access controller for controlling the operations of the transceiver to transmit and receive information according to a wireless communication protocol.

44. (Previously presented) A system as recited in claim 43 wherein the packet protocol comprises an internet protocol.

45. (Previously presented) A system as recited in claim 44 wherein the internet protocol is TCP/IP.

46. (Previously presented) A system as recited in claim 43 further comprising conversion circuitry for converting analog voice signals to digital voice data and for converting digital voice data to analog voice signals for the reproduction of voice.

47. (Currently amended) A system for processing voice for communication over a network comprising:

a processing circuit for managing the packetization of digital voice data to provide digital voice data packets and for managing the depacketization of digital voice data, wherein the digital voice packets comprise destination information used for routing the digital voice packets through the network, the processing circuit packetizing the digital voice data according to a packet protocol; and

a ~~2.4 GHz~~ radio operating in accordance with a ~~frequency hopping~~ communication protocol for transmitting and receiving digital voice data packets.

48. (Previously presented) A system as recited in claim 47 wherein the packet protocol comprises an internet protocol.

49. (Previously presented) A system as recited in claim 48 wherein the internet protocol is TCP/IP.

50. (Previously presented) A system as recited in claim 47 further comprising conversion circuitry for converting analog voice signals to digital voice data and for converting digital voice data to analog voice signals for the reproduction of voice.

51. (Currently amended) A system for processing voice for communication over a network comprising:

a processing circuit for managing the packetization of digital voice data to provide digital voice data packets and for managing the depacketization of digital voice data, wherein the digital voice packets comprise destination information used for routing the digital voice packets through

the network, the processing circuit packetizing the digital voice data according to a packet protocol;

a radio for wireless transmission and reception of digital voice data packets; and

a processor for controlling the operation of the radio according to a communication protocol that accommodates a plurality of data rates including at least a standard data rate and a higher data rate.

52. (Previously presented) A system as recited in claim 51 wherein the packet protocol comprises an internet protocol.

53. (Previously presented) A system as recited in claim 52 wherein the internet protocol is TCP/IP.

54. (Previously presented) A system as recited in claim 51 further comprising conversion circuitry for converting analog voice signals to digital voice data and for converting digital voice data to analog voice signals for the reproduction of voice.

55. (New) A system as recited in claim 47 wherein the radio comprises a 2.4GHz radio.

56. (New) A system as recited in claim 55 wherein the radio operates in accordance with a frequency hopping communication protocol.

57. (New) A system as recited in claim 47 wherein the radio operates in accordance with a frequency hopping communication protocol.

58. (New) A system as recited in claim 47 wherein the radio operates in accordance with a spread spectrum communication protocol.

59. (New) A system as recited in claim 58 wherein the radio operates in accordance with a frequency hopping communication protocol.